

The first name in high fidelity

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EXPLANATION OF PROTECTIVE CIRCUITS

- * For about two seconds after the power switch is turned on, the speakers remain silent because the power muting circuit operates during this time.
 - If this unit is operated with speakers of 4 ohm or less, or by being operated to drive two pairs of speakers of 8 ohm or less simultaneously, its power limitter will start to operate. If under these conditions the volume is raised to a high level, the sound from the speakers may be distorted.
- * If the speaker terminals are short-circuited or the ventilation holes at the cabinet top are blocked during long periods of operation. The internal temperature may rise abnormally. At about 90°, the thermal sensor (temperature detection) circuit becomes activated and will interrupt the signal. If the cause is removed and the internal temperature is back to normal, the unit automatically resets itself to restore normal opration.

Nominal Specifications For Information Only.

RECEIVER	RS-1035L
POWER AMPLIFIER SECTION	
Continuous RMS sine wave power per	
channel within stated bandwidth at no more than stated distortion and with	35W × 2
an 8 ohm load.	
Power Bandwidth	20Hz/20kHz
Total Harmonic Distortion	0.2 %
PREAMPLIFIER SECTION	
Input Sensitivity and Impedance	
At rated output, 8-ohms at 1kHz	2mV/50k ohm
Phono	110mV
Phono (max input capability)	150mV/100k ohm
Auxiliary	150mV/100k ohm
Tape Monitor	150HV/100k GHH
Hum & Noise (below rated output) Phono	75 dB
Auxiliary	90 dB
Tape Monitor	90 dB
Frequency Response	
Phono (RIAA EQUALIZED±1 dB)	30Hz - 15kHz
Auxiliary input ±1. dB:	20Hz - 20kHz
Tape Monitor input ±1 dB	20Hz - 20kHz
Bass Control Range (at 100Hz)	±10 dB
Treble Control Range (at 10kHz)	±10 dB
	+8 dB at 100Hz
Loudness Contour (at 30 dB volume attenuation)	+4 dB at 10kHz
High Filter	-6 dB (5kHz)
Separation (stereo) at 1kHz	40 dB
FM TUNER SECTION Mono	1.9 μV/10.8 dBf
Usable Sensitivity Stereo	4.6 μV/18.5 dBf
Mono Mono	2.8 μV/14.2 dBf
50 dB Quieting Sensitivity Stereo	38 μV/36.8 dBf
Capture Ratio	1,0 dB
Alt Channel Selectivity (±400kHz)	68 dB
Image Response Ratio	56 dB
Spurious Response Ratio	85 dB
AM Suppression Ratio	55 dB
Signal-to-Noise Ratio (Mono & Stereo)	70/66 dB
Total Harm. Distortion (Mono & Stereo) at 65 dBf	0.3/0.4 %
T.H.D. at 50 dB Quieting Mono	0.4 %
Sensitivity Stereo	0.5 %
Stereo Separation (1kHz/10kHz)	40/30 dB
Sub-Carrier Suppression (19/38kHz)	60/70 dB
AM TUNER SECTION	MW LW
Usable Sensitivity	300 μV/m 500 μV/n
Selectivity (±10kHz)	43 dB 40 dB
Signal-to-Noise Ratio	48 dB 46 dB
Image Response Ratio	48 dB 60 dB
IF Response Ratio	45 dB
GENERAL SECTION	
Power Requirements (50/60Hz)	AC110V/220V
Power Consumption	190 W/228 VA
AC Outlets	
Dimensions H x W x D	46.8 x 15.4 x 33.3 cm

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RECOMMENDED TEST EQUIPMENT

The following test equipment is recommended to completely test and align the Receiver:

- Line Voltage Isolation Transformer.
- AC DC Multimeter.
- Accurately Calibrated AC Voltmeter.
- Oscilloscope (Flat to 100 kHz Minimum)
- Low-Distortion Audio Sine-Wave Generator
- Harmonic Distortion Analyzer

- Two (2) Load Resistors, 8-ohms, 250 Watts (Minimum Rating)
- Low-Distortion AM-FM Signal Generator
- 10.7 MHz Sweep Generator
- Multiplex Generator
- 455 kHz Sweep Generator

HARMONIC DISTORTION TEST

CAUTION: Limit the following tests to no more than ten minutes each. Use 8-ohm resistors with a minimum power rating of 250 watts when connecting a load across the SPEAKERS terminals.

CONTROL SETTINGS:

Unplug the AC power cord and set the front panel controls as follows:

BASS, TREBLE, and BALANCE controls to center positions

POWER push button out (not depressed)

SPEAKERS switch to PHONES

FUNCTION switch to AUX

HIGH FILTER, MONO MODE, TAPE MONITOR and LOUDNESS CONTOUR out (not depressed)

VOLUME control to MINIMUM position

LEFT CHANNEL DRIVEN

ONE CHANNEL DRIVEN:

- Connect a low distortion audio generator to LEFT AUX IN jack. Set generator frequency to 1 kHz and output to minimum.
- Connect an 8-ohm load resistor between SPEAKERS MAIN LEFT and COM terminals.
 Connect a Harmonic Distortion analyzer and an AC VTVM in parallel across the 8-ohm load.
- 3) Connect the AC power cord and set SPEAKERS switch to MAIN. Turn VOLUME control to MAX.
- 4) Increase generator output for RS-1035 35W RMS (16.7V across the 8-ohm load).
 - Harmonic Distortion Analyzer should measure 0.2% distortion or less.
- 5) Repeat steps 1 through 4 for RIGHT CHANNEL.

BOTH CHANNELS DRIVEN

Connect 8-ohm load resistors across LEFT and RIGHT MAIN SPEAKERS terminals. Depress "MONO MODE" pushbutton. Adjust generator output and "BALANCE" control for RS-1035: 35W at Left and Right Channels (RS-1035: 16.7V) across the 8-ohm loads. Harmonic Distortion Analyzer should measure RS-1035: 0.2% distortion or less at each channel.

DISASSEMBLY INSTRUCTIONS

Removal Of Chassis From Cabinet

- 1. Remove 4 screws from left and right sides of cabinet.
- 2. Separate cabinet from chassis.
- Remove 6 screws from bottom of cabinet. (Do Not Remove Leg From Bottom Of Cabinet).
- 4. Separate bottom of cabinet from chassis.

Removal Of Front Panel Assembly

- Remove all Knobs with the exception of push buttons.
- 2. Remove 4 screws from top of panel.
- 3. Remove nut from "Function" and "Speaker" switches located on Front Panel Assembly.
- 4. Separate Front Panel Assembly from chassis.

Removal Of Meter

- 1. Unsolder leads from meter terminals.
- 2. Remove One screw and Meter Cover.
- 3. Grasp Meter firmly and pull back separating Meter from panel.

Removal Of Slide Rail Pointer

- 1. Remove Metal Slide Pointer from Slide Rail Pointer.
- 2. Remove 2 screws from top of Slide Rail Pointer.

Removal And Replacement Of Dial Lamps

- Remove Dial P.C. Board from Shelter Light with two flaps straight.
- 2. Grasp Dial Lamp and extract from lamp grommet holder.

Testing and troubleshooting any of the P.C. boards do not require removal since all component parts are top board mounted. For underneath board inspection purposes or when a defective component is to be unsoldered and replaced, the P.C. Board can be sufficiently turned over by only removing the hold down hardware. Where it necessitates complete removal of any individual board then proceed as follows.

Removal Of AM-FM RF/IF/MPX Amp P.C. Board

- Unscrew 2 screws from Drum. (Do Not Remove Dial String From Drum).
- 2. Remove 6 screws from P.C. Board.
- 3. Slide P.C. Board from plastic clip.
- Unsolder connections and remove P.C. Board.

Removal Of EQ-Amp P.C. Board

- 1. Unsolder wire wraps from terminals.
- 2. Remove 4 hold down screws.

Removal Of Power Supply P.C. Board

- 1. Unsolder wire wraps from terminals.
- 2. Remove 5 hold down screws.
- 3. Slide P.C. Board from plastic clip.

Removal Of Power Amp P.C. Board

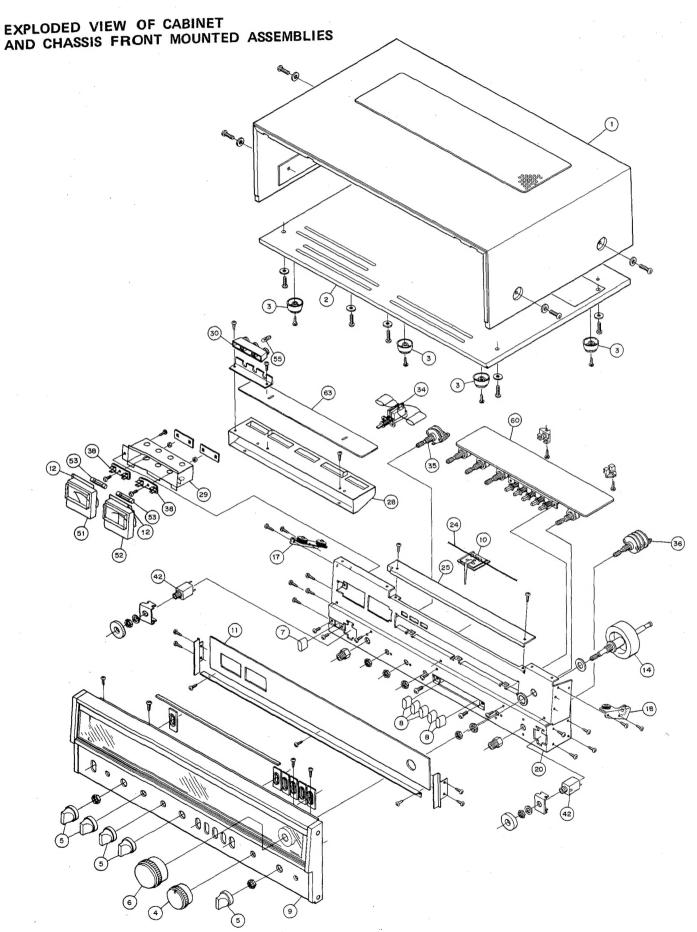
- 1. Unsolder wire wraps from terminals.
- 2. Remove 4 screws holding Power IC (STK-082).
- 3. Remove screw holding posistor
- 4. Unscrew and remove plastic clip from P.C. Board.

Removal Of Boostor P.C. Board

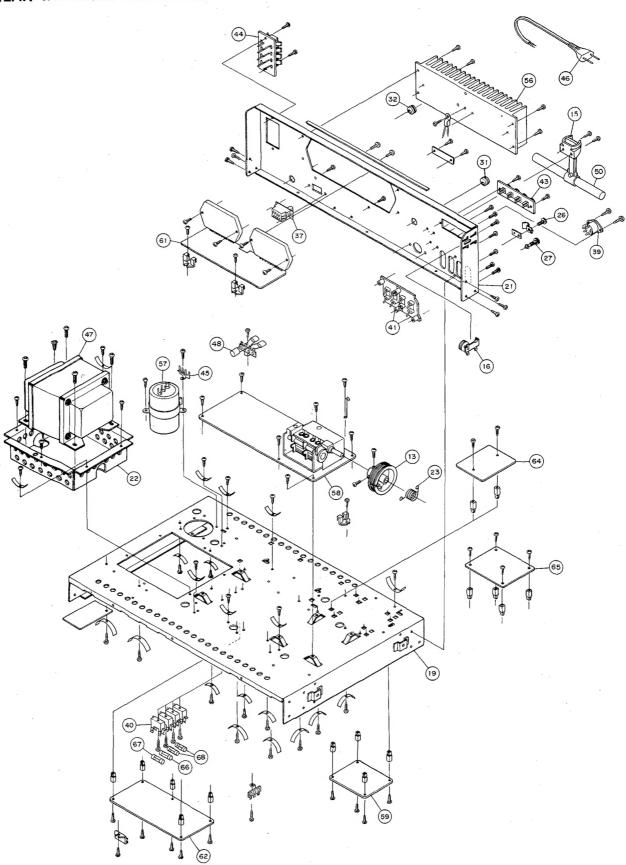
- 1. Unsolder wire wraps from terminals.
- 2. Remove 2 hold down screws.

Removal Of Tone Control Amp P.C. Board

- 1. Unsolder wire wraps from terminals.
- 2. Remove 2 screws from left and right sides of 4 push button switch.
- Remove 4 nuts variable resistors.
- 4. Unscrew and remove 2 plastic clips from P.C. Board.



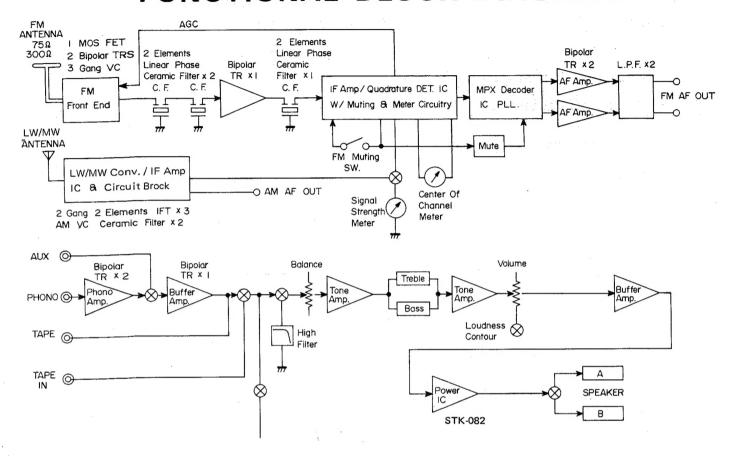
EXPLODED VIEW OF CHASSIS AND REAR MOUNTED ASSEMBLIES



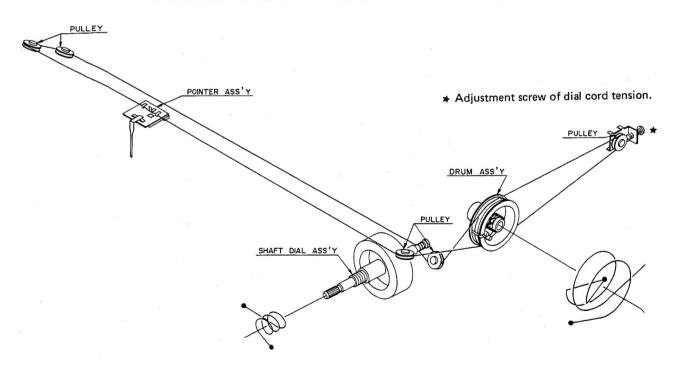
PARTS LIST

PACKING PARTS LIST	-	ELECTRICAL PARTS LIST						
Ref. No. Part Number	Description	Ref. No.	Part Number	Description				
1316 2119 01362		34 35 36 37 38	4 2319 34021 4 2312 00790 4 2319 21530 4 2359 20160	Switch, Power Switch, Rotary, Speaker Switch, Rotary, Function Switch, Slide, Volt Select Holder, Lamp				
ACCESSORIES PARTS	LIST	39 40	4 2359 21021					
Ref. No. Part Number	Description	41		Rear Accessory Jacks				
4 2449 20230	Antenna FM Explanatory Booklet (English & German)	42 43 44 45 46 *	4 2379 21460 4 2379 21560 4 2379 21840 4 2439 20526	Line Cord				
CABINET PARTS LIST	-	47 48		Power Transformer (110 - 220V) Choke Coil (AM Out)				
Ref. No. Part Number	Description	50	4 2579 25110	AM Antenna (LW/MW)				
1 1310 1101 08400 2 1312 1105 17100 3 1312 1801 13200	Cabinet Assy Plate Bottom	51 52 53 55	4 5119 20602 4 6129 20280	Meter, Signal Strength Meter, Center of Channel Pilot Lamp (Meter Lamp) Pilot Lamp (Stereo Indicator)				
APPEARANCE PARTS	LIST	56	1312 6201 22800					
Ref. No. Part Number	Description	C01,02 C03	C1HCDK471SL C1HFRK273A	Cap. Ceramic 470pF 50V $\pm 10\%$ Cap. Mylar 0.027 μ F 50V $\pm 10\%$				
4 1310 1001 35400 5 1310 1001 35500 6 1310 1001 41400 7 1312 1001 35600 8 1312 1001 35700 9 1310 1016 22609 10 1310 3011 17800 11 1312 1201 28105 12 1312 1406 12300	Knob, Controls Knob, Tuning Knob Power SW Knob Push SW Dress Panel Assy Dial Pointer Assy Dial Plate	C04 C06 57(C08) C09 C10,11 R02 R03,04	C1HFRM683A C1HYDZ473A 4 2239 21170 C1HCDC010SL C2EHRM103A R2EDPJ272A R3AXPK151A	Cap. Mylar $0.068 \mu\text{F}$ $50 \text{V} \pm 20 \text{\%}$ Cap. Ceramic $0.047 \mu\text{F}$ $50 \text{V} + 80, -20 \text{\%}$ Cap. Electrolytic $4700 \mu\text{F} \times 250 \text{V}$ Cap. Ceramic $1\text{pF} 50 \text{V} \pm 0.25 \text{\%}$ MP Con. $0.01 \mu\text{F} 250 \text{V} \pm 20 \text{\%}$ Resistor Carbon $2.7 \text{k} 1/4 \text{W} \pm 5 \text{\%}$ Resistor Oxide Metal Film $150 1 \text{W} \pm 10 \text{\%}$ Resistor Carbon $1.2 \text{k} 1/4 \text{W} \pm 5 \text{\%}$				
CHASSIS PARTS LIST		R06 R07,08	R2HCPK332A R2EDPJ104A	Resistor Solid 3.3k 1/2W ±10% Resistor Carbon 100k 1/4W ±5%				
14	Support, Antenna Assy Pulley Assy Rear Pulley Assy Left Front Pulley Assy Right Front Chassis Front Panel Rear Panel Metal Mount Trans Tension Spring Dial Cord Slide Rail Dial Pointer Screw, Coax Clamp	58 * 59 * 60 * 61 * 62 * 63 * 64 * 65 * 66 67 68	1310 4001 93100 1310 4001 72120 1310 4001 72133 1310 4001 79306 1310 4001 93200 1310 4001 72166 1310 4001 79500 1310 4001 75303 4 2349 20380 4 2349 20590	RF IF MPX PCB Assy EQ PCB Assy Tone PCB Assy Power Amp PCB Assy Power Supply PCB Assy Dial Lamp PCB Assy Booster PCB Assy LW/MW Conv. PCB Assy Fuse 1A Slow Blow Fuse 4A Slow Blow Fuse 6.3A 250V Time Lag				

FUNCTIONAL BLOCK DIAGRAM



DIAL CORD STRINGING



AM-FM MULTIPLEX ALIGNMENT

AM ALIGNMENT

For Alignment: Maintain generator output as low as possible for suitable indication.

	Adjusting	Connect	ion	Position of	Adjustment	V.T.V.M.	
Step	circuit	Input	Output	Tuning dial	Aujustnient	Oscilloscope	
1	lF.	Connect 455 kHz sweep generator to VC4.	Connect Oscilloscope to Test Point TP 19.	Near max, capacity of VC at position of on interference	AM 1st 9-21310 AM DET 9-21291		
.2	MW(RF)	Connect AM generator to EXT AM antenna and GND terminals. Set to 600 kHz. Modulate with 30%, 400 Hz.	Connect Oscilloscope and	600 kHz	AM BAR ANT 9-25110 MW OSC 9-20851	Max.	
3		Change frequency to 1400 kHz.	AC. V.T.V.M. to speaker terminal.	1400 kHz	TC 01,03		
4		Change frequency to 160 kHz.		160 kHz	LW OSC 9-20860	Max.	
5	LW(RF)	Change frequency to 350 kHz.		350 kHz	TC 02, 04	iviax.	
6	Repeat adjus	tments.					

Variable capacitor completely closed

Set the dial pointer to very left line dial scale.

3. Connect sweep generator, SG, V.T.V.M. and oscilloscope.

4. Function switch to "MW" or "LW"

5. Use a screwdriver with plastic grip for all adjustments.

Step	Adjusting	Connection	on	Position of	Adjustment	V.T.V.M.	
	circuit	Input	Output	Tuning dial	Adjustinent	Oscilloscope	
1	IF	Connect sweep 10.7 MHz	Connect Oscilloscope to Test Point TP 7.	Near max, capa-	IFT In FRONT END		
2	Quadrature Detector	generator to test point VC2, through 0.01 μF.	Connect Oscilloscope to Test Point TP 6.	position of on interference	FM DET 9-21320		
3	RF	Connect FM RF generator through two 120-ohm resistors to FM antenna screw terminals. Set generator to 90 MHz, modulate with 400 Hz to provide ±75 kHz deviation. Set generator output attenuator as low as possible.	Connect V.T.V.M. to Speaker terminal.	90 MHz	LA LR	Ma×.	
4		Change generator setting to 106 MHz.		106 MHz	TCA TCR.	Max.	

1. Variable capacitor completely closed

variable capacitor completely closed
 Set the dial pointer to very left line of dial scale.
 Connect sweep generator, FM, SG, V,T,V,M, and oscilloscope. FM ANT input impedance is 75 ohm.

4. Function switch to "FM"

5. Use a screwdriver with plastic grip for all adjustments.

EM MPX ALIGNMENT

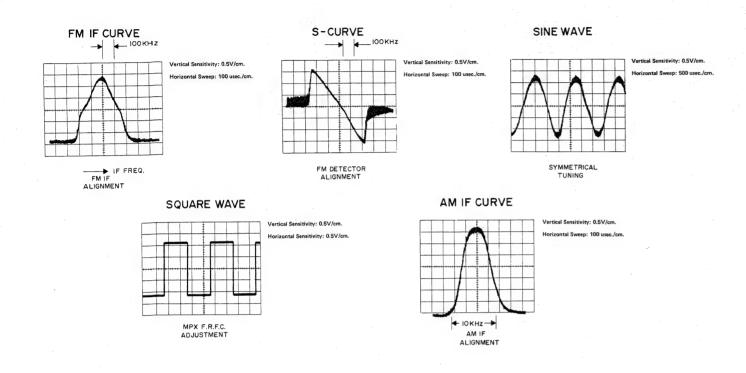
	Adjusting	Conne	ction	Position of	Adjust VR01 (5k-B) so that frequency counter or synchroscope indicate 19 kHz.		
tep	circuit	Input	Output	Tuning dial			
1	PLL IC FO (19 kHz) Adjustment	None	Connect Frequency counter or synchroscope to TP 8.				
•	FM STEREO	As above Steps 3,4 except modulation Modulate LEFT Channel ±67.5 kHz –400 Hz audio and ±7.5 kHz –19 kHz	Connect V.T.V.M. to output terminal (R Channel)	Near max, capacity of VC, at position of on interference	VR02, (1k-B)	V.T.V,M. Min.	
2	Signal Separation	pilot carrier. As above except modulate RIGHT Channel.	Connect V.T.V.M. to output terminal (L Channel).				

Variable capacitor completely closed 2. Connect FM stereo SG and V.T.V.M. 3. Function switch to "FM"

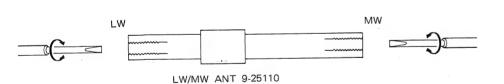
4. Use a screwdriver with plastic grip for all adjustments.

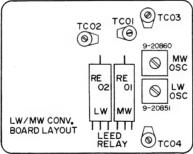
ALIGNMENT WAVE FORMS

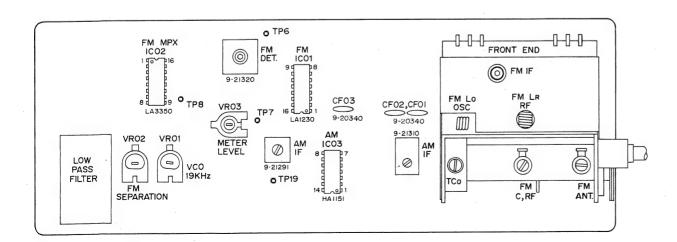
WITH OSCILLOSCOPE TIME BASE SETTINGS



AM-FM RF/IF MPX BOARD LAYOUT





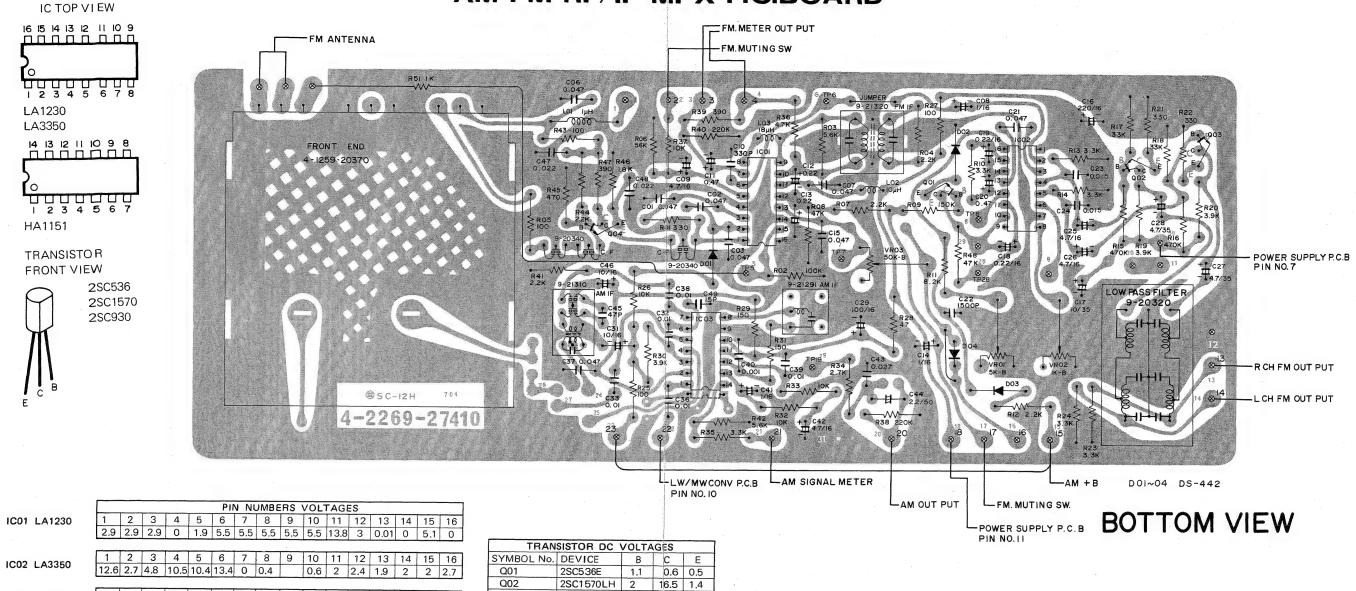


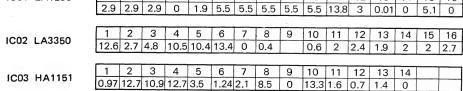
PARTS LIST

RF. IF. MPX PCB Assy 1310 4001 93100

Ref. No.	Part Number	Description	Ref. No.	Part Number	Description		
	4 1259 20370	Front End		SEMICONDUCTO	RS		
VR01 VR02	4 2229 22842	VR 5k (19kHz) VR 1k (Separation)	D01, 02 03, 04	2055 9040 44210			
VR03	4 2279 20340	VR 50k Meter Level Ceramic Filter Low Pass Filter 19kHz	IC01 IC02 IC03	2065 0151 23013 2065 0743 35012 IKK-HA1151			**************************************
	4 2569 21291 4 2569 21310	IF Trans AM (Black) IF Trans AM (Red) IF Trans FM (Quadrature)	Q01 Q02,03 Q04	2035 5100 53650 2035 5151 57079 2035 5500 93040	TR 2SC536E TR 2SC1570 LG		
L01 L02	4 2539 20170 4 2539 20370	Choke Coil	Q04	2030 3300 93040	111 2309000		
L03	4 2539 20380			RESISTORS			
			R01	R2EDSJ331A	Carbon 330	1/4W	±5 %
	CAPACITORS		R02	R2EDSJ104A	Carbon 100k		±5 %
C01,02	C1HBDM473W	Semicon 0.047 µF 50V ±20%	R03	R2EDSJ562A	Carbon 5.6k		
.03	CINDDIVI4/3VV	Semicon 0.047 #F 50V ±20%	R04 R05	R2EDSJ222A R2EDSJ101A	Carbon 2.2k Carbon 100	1/4W 1/4W	±5 % ±5 %
C06,07	C1HYSZ473A	Ceramic 0.047 µ F 50V +80,-20%	R06	R2EDSJ101A	Carbon 56k		±5 %
C08	C1CUEX105A	Sint. Alu. 1 μF 16V +40,-20%	R07	R2EDSJ222A	Carbon 2.2k	1/4W	±5%
C09	C1CRE-475A	Electrolytic 4.7 µF 16V ±10%	R08	R2EDSJ473A	Carbon 47k	1/4W	±5 %
C10	C1HCSK331SL	Ceramic 330pF 50V ±10%	R09	R2EDSJ154A	Carbon 150k		±5 %
C11	C1CUEX474A	Sint. Alu. 0.47 μF 16V +40,-20% Sint. Alu. 0.22 μF 16V +40,-20%	R10	R2EDSJ332A	Carbon 3.3k		±5%
C12,13 C14	C1CUEX224A C1CRE-105A	Electrolytic 1 µF 16V	R11	R2EDSJ822A	Carbon 8.2k		±5%
C15	C1HYSZ473A	Ceramic 0.047 µF 50V +80,-20%	R12	R2EDSJ222A R2EDSJ332A	Carbon 2.2k Carbon 3.3k		±5 % ±5 %
C16	C1CRE-227A	Electrolytic 220 µF 16V	R13, 14 R15, 16		Carbon 470k	1/4W	±5 %
C17	C1VRE-106A	Electrolytic 10 µF 35V		R2EDSJ333A	Carbon 33k	1/4W	±5 %
C18,19	C1CUEX224A	Sint. Alu. 0.22 µF 16V +40,-20%	R19, 20	R2EDSJ392A	Carbon 3.9k	1/4W	±5%
C20	C1CUEX474A	Sint. Alu. 0.47 µF 16V +40,-20%	R21, 22	R2EDSJ331A	Carbon 330	1/4W	±5%
C21	C1HFRM473A	Mylar 0.047 µF 50V ±20% Styrol 1500pF 50V ±5%	R23, 24	R2EDSJ332A	Carbon 3.3k	-	
C22 C23,24	C1HSEJ152A C1HFRK153A	Styrol 1500pF 50V ±5% Mylar 0.015 µF 50V ±10%	R25	R2EDSJ101A	Carbon 100		±5% ±5%
C25,24 C25,26	C1CUEX475A	Sint. Alu. 4.7 μF 16V +40,–20%	R26 R27	R2EDSJ103A R2EDSJ101A	Carbon 10k Carbon 100		±5%
C27,28	C1VTRM475A	Tantal 4.7 µF 35V ±20%	R28	R2EDSJ470A	Carbon 47	1/4W	±5 %
C29	C1CRE-107A	Electrolytic 100 µF 16V	R29	R2EDSJ151A	Carbon 150	1/4W	±5%
C31	C1CRE-106A	Electrolytic 10 µF 16V	R30	R2EDSJ392A	Carbon 3.9k	1/4W	±5%
C32,33	C1HFRM103A	Mylar 0.01 μF 50V ±20%	R31	R2EDSJ151A	Carbon 150	1/4W	±5 %
C36	C1HFRM103A	Mylar $0.01 \mu F$ 50V $\pm 20 \%$ Ceramic $0.047 \mu F$ 50V $+80,-20 \%$	R32, 33	R2EDSJ103A	Carbon 10k		±5 %
C37 C38, 39	C1HYSX473A C1HFRM103A	Mylar 0.01 μF 50V ±20 %	R34	R2EDSJ272A	Carbon 2.7k	1/4W	
C40	C1HFRM102A	Mylar 0.001 μF 50V ±20 %	R35 R36	R2EDSJ332A R2EDSJ472A	Carbon 3.3k Carbon 4.7k		±5 % ±5 %
C41	C1CUEX105A	Sint. Alu. 1 μF 16V +40,–20 %	R37	R2EDSJ103A	Carbon 10k		±5 %
C42	C1CRE-475A	Electrolytic 4.7 µF 16V	R38	R2EDSJ224A	Carbon 220k		±5%
C43	C1HFRM273A	Mylar 0.027 μF 50V ±20 %	R39	R2EDSJ391A	Carbon 390		±5 %
C44	C1HRE-225AL	Electrolytic 2.2 µ F 50V	R40	R2EDUJ224A	Carbon 220k	1/4W	±5 %
C45	C1HCSK470SL	Ceramic 47pF 50V ±10 %	R41	R2EDSJ222A	Carbon 2.2k		±5%
C46 C47, 48	C1CRE-106A C1HYSX223A	Electrolytic 10 μF 16V Ceramic 0.022 μF 50V +80,-20 %	R42	R2EDSJ562A	Carbon 5.6k		±5 %
C47, 46	C1HCSJ150SL	Ceramic 0.022 #F 50V +60,—20 % Ceramic 15pF 50V ±5 %	R43	R2EDSJ101A	Carbon 100		±5%
	511.0001000L	-070	R44 R45	R2EDSJ222A R2EDSJ471A	Carbon 2.2k Carbon 470	1/4W 1/4W	±5 % ±5 %
			R46	R2EDSJ182A	Carbon 1.8k		±5%
			R47	R2EDSJ391A	Carbon 390		±5%
			R48	R2EDSJ473A	Carbon 47k		±5%
			R51	R2EDPJ102A	Carbon 1k	1/4W	±5 %

AM-FM RF/IF MPX P.C.BOARD



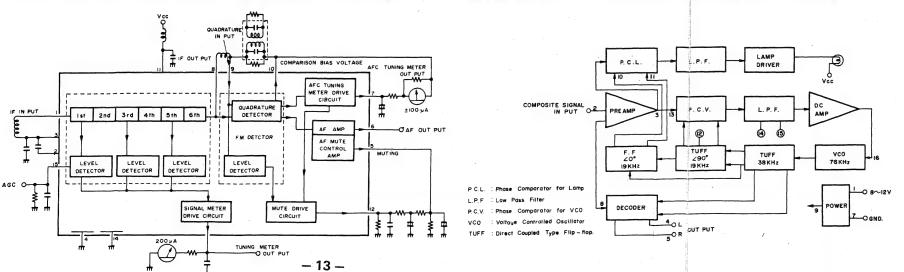


2SC1570LH 2 16.5 1.4 2SC930D 2.2 12.8 1.6 Q04

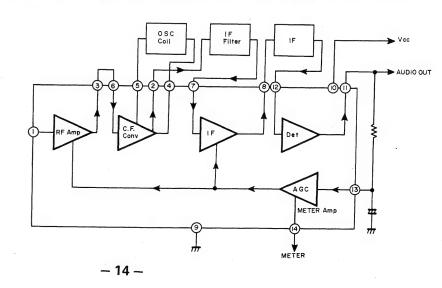
FM IF IC LA1230 SIGNAL FLOW

IC03 HA1151

FM MPX IC LA3350 SIGNAL FLOW



AM RF IF IC HA1151 SIGNAL FLOW



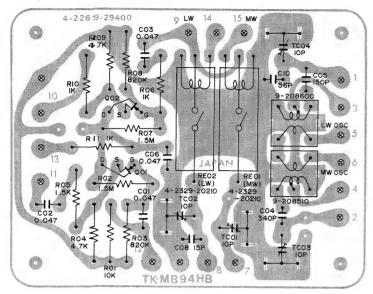


BOOSTOR P.C.BOARD

-L CH. OUTPUT TO POWER AMP. P.C.B. PIN NO, 1

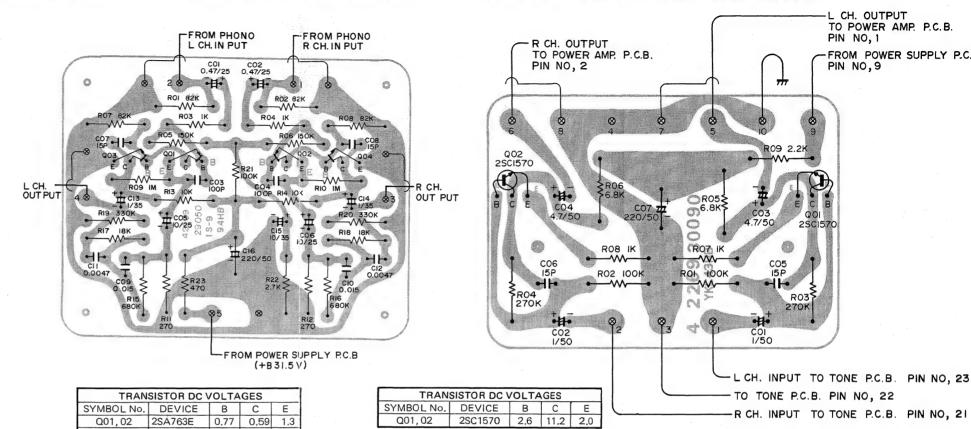
PIN NO,9

FROM POWER SUPPLY P.C.B.



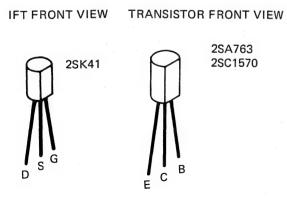
QOI , 02 25K4I (F)

FET DC VOLTAGES												
SYMBOL No.	DEVICE	D	S	G								
Q01	2SK41	11.6	5.4	3.9								
002	25K41	116	5.1	3.8								

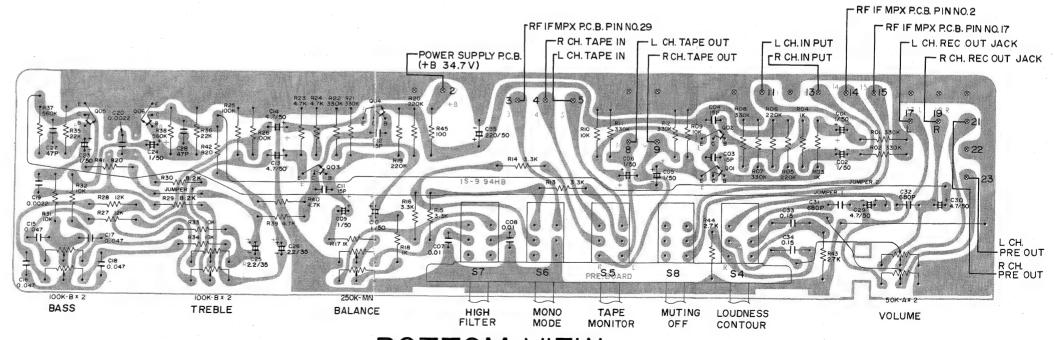


TONE CONTROL AND MODE SELECTOR P.C.BOARD

Q03. 04 2SC1570LH 0.59 11 0

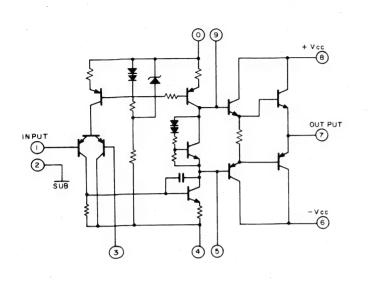


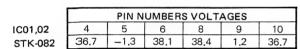
TRANSISTOR DC VOLTAGES												
SYMBOL No.	DEVICE	В	С	E								
Q01,02	2SC1570LH	18.9	33.0	18.6								
Q03, 04	2SC1570LH	18.5	33.0	18.1								
Q05, 06	2SC1570LH	0.6	19.0	0								



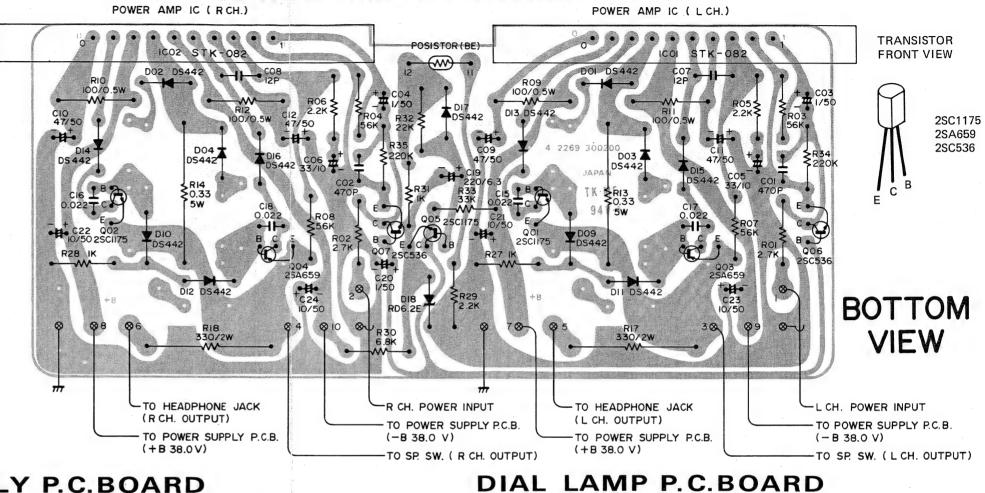
POWER AMP IC STK-082 SCHEMATIC

POWER AMP P.C.BOARD



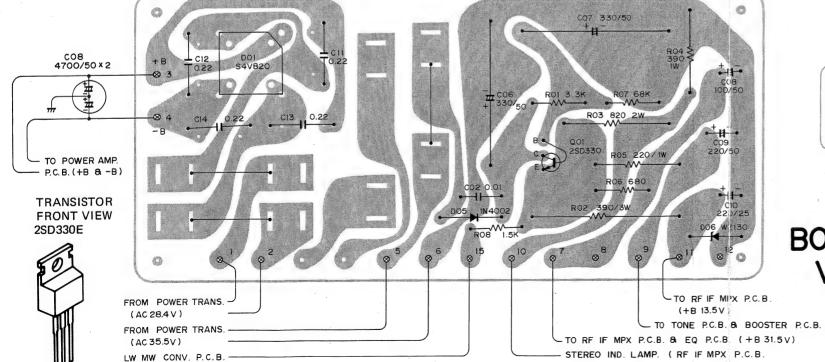


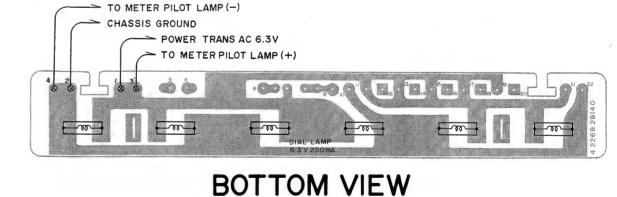
(+B 13.2V)



POWER SUPPLY P.C.BOARD

POWER SUPPLY P.C.BOARD





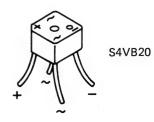
BOTTOM VIEW

 TRANSISTOR DC VOLTAGES

 SYMBOL No.
 DEVICE
 B
 C
 E

 Q01
 2SD330E
 39.9
 44.1
 39.4

DIODE FRONT VIEW



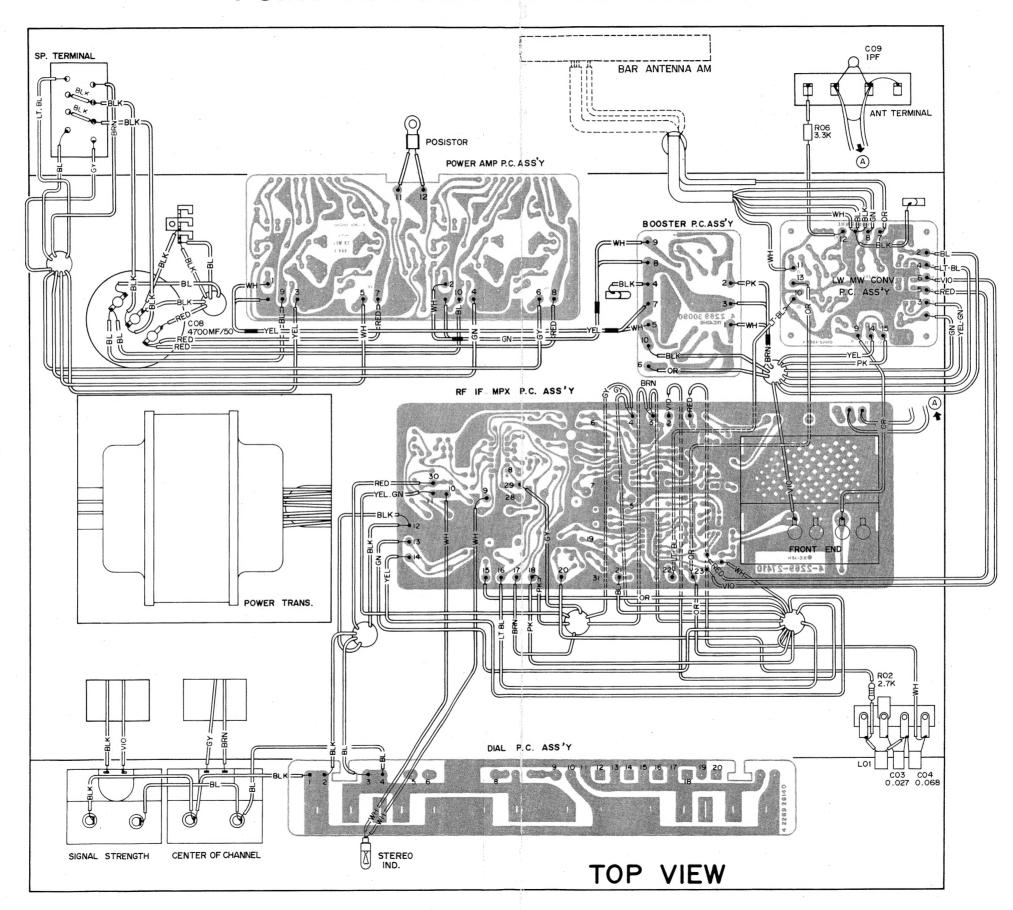


PARTS LIST

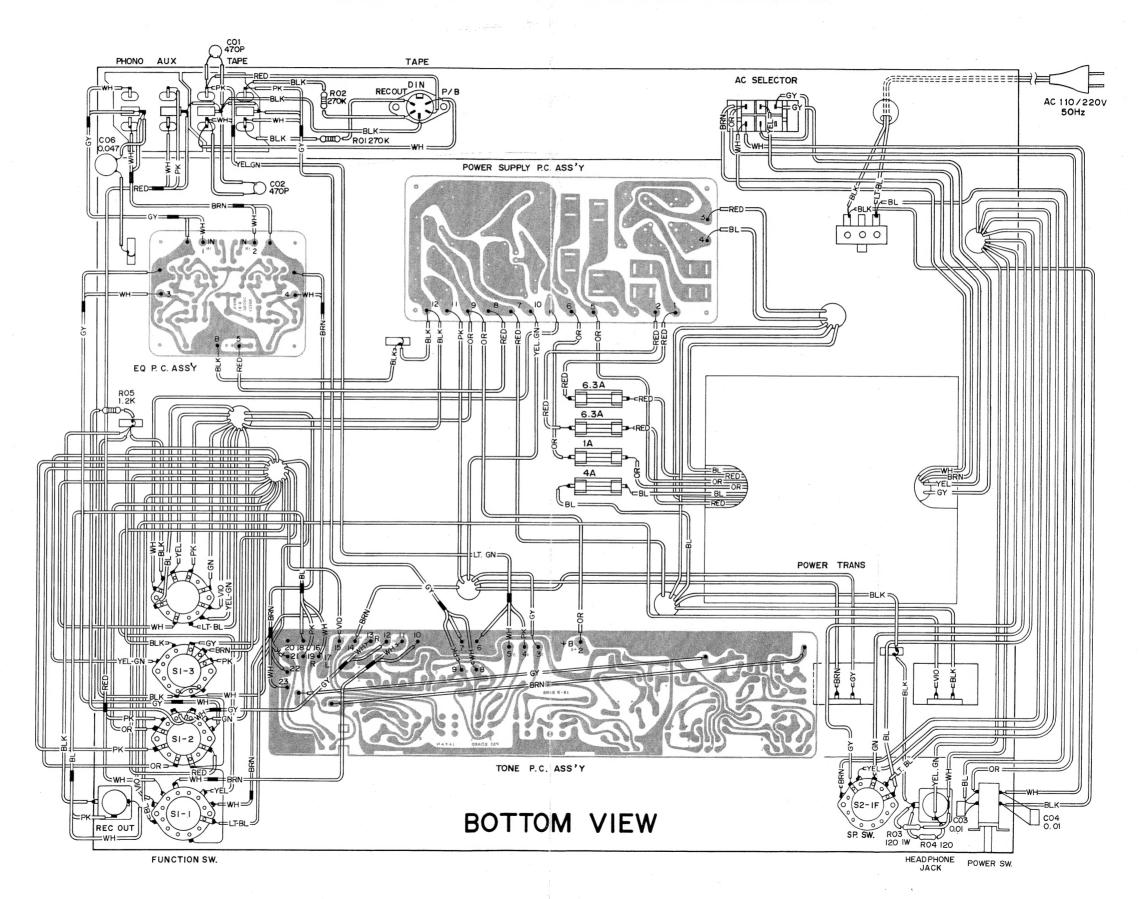
EQ PCB A					TONE PO 1310 400	•				POWER 1310 400	AMP PCB Assy 01 79306			POWER \$ 1310 400	SUPPLY PCB Assy 11 93200		
Ref. No.	Part Nu mber	Description			Ref. No.	Part Number	Description			Ref. No.	Part Number	Description		Ref. No.	Part Number	Description	
	CAPACITORS					4 2229 26180	VR-50k Volume				HLL-PTH487A-B	Posistor			CAPACITORS		
	C1EUB M 474A C1HCS K 101SL	Sint, Alu 0.47 μF Ceramic 100pF		±20°% ±20 %		4 2229 25380	VR-250k Balance VR-100k Bass/Tr			001.00	CAPACITORS	C	501/	C02 C06, 07	C2HYDP103A C1HRT-337A	Ceramic 0.01 μF § Electrolytic 330 μ	•
C05, 06	C1ERB-106A	Electrolytic 10 μF			S7	4 2319 34060	SW Push 5 Key H				C1HCSK471SL C1HRE-105AL	Ceramic 470pF Electrolytic 1 µF	50V ±10 %	C08	C1HRB-107A	Electrolytic 100 μ	
	C1HCSJ150SL	· ·		±5%	S6, S5		Mono Mode, Tapo				C1ARB-336A	Electrolytic 33 µF		C09	C1HRB-227A	Electrolytic 220 µ	
	C1HFAJ153A C1HFAJ472A			±5 % ±5 %	S8, S4		Muting Off, Loud	iness co	ntour .	C07,08	C1HCDJ120SL	Ceramic 12pF	50V	C10	C1ERB-227A	Electrolytic 220 µ	
C13 14	C1VTRM105A			±20 %		CAPACITORS					C1HRB-476A	Electrolytic 47 μF	50V	C11,12	4 2239 21220	Mylar 0.22 µF	250∨ ±10%
C15, 14	C1VTRM106A			±20 %	CO1 02	C1HRE-105A	Electrolytic 1 μF	501/		11, 12	C1HFAM223A	M. Jan 0 000 F	FOV	13,14			
C16	C1HRB-227A	Electrolytic 220 μF	50V			C1HCŞJ150SL	Ceramic 15pF		±5%	17, 18	CINFAIVIZZSA	Mylar 0.022 μF	50V ± 20 %		SEMICONDUCTO	De	
						C1HRE-105AL	Electrolytic 1 μF			C19	C0JRB-227A	Electrolytic 220 A	ε 6.3V	D01		,	
	SEMICONDUCTO	DRS			C07,08	C1HFAJ103AL	Mylar 0.01 μ F	50V	±5 %	C20	C1HRB-105A	Electrolytic 1 µF		D01 D05	DDD-S4VB20A DGG-1N4002	Diode S4VB20 Diode 1N4002	
Q01,02		TR 2SA763E				C1HRE-105AL	Electrolytic 1 μ				C1HRB-106A	Electrolytic 10 µF	50V	D05	DJJ-WZ-130	Diode 1N4002 Diode WZ-130	
Q03,04	203 5 5151 57089	7 TR 2SC1570LH				C1HCSJ150SL	Ceramic 15pF		±5 %	23, 24				Q01	2035 8220 33050		
	RESISTORS					C1HRE-475AL	Electrolytic 4.7 μ Mylar 0.047 μF	≀F 50V 50V	±5 %		SEMICONDUCTO	NDC				32000	
		0.1001	4 /414/	. = 0/	17, 18	C1HFAJ473A	Wiylar 0.047 μF	50 V	-5 /0						RESISTORS		,
	R2EDSJ823A		1/4W 1/4W			C1HFAJ222A	Mylar 0.0022 μF	50V	±5%	D01,02	2055 9040 44210	Diode DS-442		R01	R2EDSJ332A	Carbon 3.3k	1/4W ±5%
	R2EDSJ102A R2EDSJ154A		1/4W		C23, 24	C1HRE-105AL	Electrolytic 1 μF			03, 04 09, 10				R02	R3WXBJ391A	Oxide Metal Film	390 3W ±5 %
	R2EDSJ823A		1/4W			C1VTRM225A	Tantalum 2.2 μ F		± 20 %	11, 12				R03	R3DXBJ821A	Oxide Metal Film	
	R2EDSJ105A		1/4W			C1HCSK470SL	Ceramic 47pF		± 10 %	13, 14				R04	R3AXBJ391A	Oxide Metal Film	
R11, 12	R2EDSJ271A		1/4W			C1HRE-475AL	Electrolytic 4.7		± 10 %	15, 16				R05 R06	R3AXBJ221A R2EDSJ681A	Oxide Metal Film Carbon 680	1/4W ±5%
	R2EDSJ103A		1/4W			C1HYSK681R C1HFAJ154A	Ceramic 680pF Mylar 0.15 μF		±5%	17				R07	R2EDSJ683A	Carbon 68k	1/4W ±5%
	R2EDSJ684A		1/4W		C35, 54	C1HRB-227A	Electrolytic 220			D18	DNN-RD6.2E	Diode RD-6.2E		R08	R2EDSJ152A	Carbon 1.5k	1/4W ±5%
R17, 18	R2EDSJ183A R2EDSJ334A		1/4W 1/4W		000	011110 2277	2,000.0., 0.0 220	,			2065 6380 08210						
R19, 20 R21	R2EDSJ3334A		1/4W			SEMICONDUCTO	RS				2035 6701 17550 2035 6800 65950			LW/MW	CONV. PCB Assy		
R22	R2EDSJ272A		1/4W		Q01,02	2035 5151 57079	TR 2SC1570 LG			Q05, 04	2035 6701 17550			1310 400			
R23	R2EDSJ471A		1/4W	±5%	03,04						2035 5100 53650		•	RE01,02	4 2329 20210	Leed Relay	
					05,06									TC01,03		Variable Capacito	or
	OR PCB Assy					DEGLOTORO					RESISTORS			TC02,04	4 2249 20440	Variable Capacito	
1310 400	01 79500					RESISTORS		. (4).			R2EDSJ272A	Carbon 2.7k	1/4W ±5%			MW OSC Coil	
	CAPACITORS					R2EDSJ334A	Carbon 330k		±5 %		R2EDSJ563A	Carbon 56k	1/4W ±5%		4 2589 20860	LW OSC Coil	
	C1HRB-105A	Electrolytic 1 μF				R2EDSJ102A R2EDSJ224A	Carbon 1k Carbon 220k		±5 % ±5 %		R2EDSJ222A	Carbon 2.2k	1/4W ±5%		CAPACITORS		
	C1HRE-475AL	Electrolytic 4.7 µF		+E 0/		R2EDSJ334A	Carbon 330k		±5 %		R2EDSJ563A R2HXBJ101A	Carbon 56k Oxide Metal Film	1/4W ±5%	001.00			
	C1HCSJ150SL	Ceramic 15pF Electrolytic 220 µF	50V	±5 %		R2EDSJ103A	Carbon 10k	-	±5%	11, 12	NZIIABJIOTA	Oxide Metal Filli	100 1/2W ±5/6	C01,02 03	C1HYSE473A	Ceramic 0.04/ µ1	= 50V +80,—20%
C07	C1HRB-227A	Electrolytic 220 µi	50 V		R11, 12	R2EDSJ334A	Carbon 330k		±5 %		R3HEIKR33A	Cement 0.33	5 W ± 10 %	C04	C1HSEJ341A	Styrol Con. 340p	F 50V ±5%
	SEMICONDUCTO	ORS				R2EDSJ332A	Carbon 3.3k	1/4W	±5 %	R17, 18	R3DXBJ331A	Oxide Metal Film		C05	C1HSEJ151A	Styrol Con. 150p	
001 02	2035 5151 57079				15, 16	D0ED0 1400 A	0-1	1 //\\	+ = 0/	R27,28	R2EDSJ102A	Carbon 1k	1/4W ±5%	C06	C1HYSE473A	,	= 50V +80,-20%
Q01,02	2000 0101 07070	711 200107020				R2EDSJ102A R2EDSJ224A	Carbon 1k Carbon 220k		±5 % ±5 %	R29	R2EDSJ222A	Carbon 2.2k	1/4W ±5 %	C08	C1HCDJ150SL	Ceramic 15pF	50V ±5%
	RESISTORS					R2EDSJ334A	Carbon 330k	-	±5 %	R30	R2EDSJ682A	Carbon 6.8k	1/4W ±5 %	C10	C1HCDJ560SL	Ceramic 56P	50V ±5%
B01 02	R2EDSJ104A	Carbon 100k	1/4W	±5%		R2EDSJ472A	Carbon 4.7k		±5 %	R31	R2EDSJ102A	Carbon 1k	1/4W ±5 %				
R03.04	R2EDSJ274A		1/4W			R2EDSJ104A	Carbon 100k	1/4W	±5 %	R32	R2EDSJ223A	Carbon 22k	1/4W ±5 %		SEMICONDUCTO	RS	
R05,06	R2EDSJ682A		1/4W	$\pm 5\%$		R2EDSJ123A	Carbon 12k		±5 %	R33	R2EDSJ333A R2EDSJ224A	Carbon 33k Carbon 220k	1/4W ±5 % 1/4W ±5 %	Q01,02	2035 6500 04160	FET 2SK 41F	
R07,08	R2EDSJ102A		1/4W			R2EDSJ822A	Carbon 8.2k		±5 %	1104,00	112LD002Z-7A	Carbon 220k	1/400 -5 /0				
R09	R2EDSJ222A	Carbon 2.2k	1/4W	±5%		R2EDSJ103A	Carbon 10k	1/400	±5%	DIALLA	MP PCB Assy				RESISTORS		
					33, 34	R2EDSJ223A	Carbon 22k	1 /4\\\	±5%	1310 400				R01	R2EDSJ103A	Carbon 10k	1/4W ±5%
						R2EDSJ564A	Carbon 560k		±5%		Part Number	Description		R02,07	R2EDSJ155A	Carbon 1.5M	1/4W ±5%
						R2EDSJ472A	Carbon 4.7k		±5%	nei. NO.		•		R03,08 R04,09	R2EDSJ824A R2EDSJ472A	Carbon 820k Carbon 4.7k	1/4W ±5% 1/4W ±5%
						R2EDSJ821A	Carbon 820		±5%		4 2359 20930		Tuno 6 2\/	R05	R2EDSJ152A	Carbon 4.7k	1/4W ±5%
					R43, 44	R2EDSJ272A	Carbon 2.7k	-	±5%		4 0129 20280	Pilot Lamp, Fuse 250mA	Type 6.3V		R2EDSJ102A	Carbon 1k	1/4W ±5%
					R45	R2EDSJ101A	Carbon 100	1/4W	±5 %			200111		11			

PARTS LIST

POINT TO POINT WIRING DIAGRAM



POINT TO POINT WIRING DIAGRAM



SCHEMATIC DIAGRAM

